

## ETHYLENE TRIMERIZATION CATALYST AND TRIMERIZATION OF ETHYLENE IN THE PRESENCE OF THE SAME

**Patent number:** JP2000212212  
**Publication date:** 2000-08-02  
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**Classification:**  
- **international:** C08F4/69; C08F110/02  
- **european:**  
**Application number:** JP19990011492 19990120  
**Priority number(s):**

### Abstract of JP2000212212

**PROBLEM TO BE SOLVED:** To obtain an ethylene trimerization catalyst used to produce 1-hexene from ethylene in high selectivity at good efficiency by using at least three components of a chromium complex coordinated with neutral polydentate ligands, an alkyl metal compound, and a modified clay mineral.

**SOLUTION:** The chromium complex used is desirably a complex represented by the formula:  $ACrB_n$  (wherein A is a neutral polydentate ligand; (n) is 1-3; and B is desirably a carbonyl, a 1-10C hydrocarbon group, a halogen, an amino, or a thioalkoxide. The neutral polydentate ligand is desirably the one having a tripod structure. The modified clay compound is desirably the reaction product of a clay mineral with at least one salt selected from among a protonate of an amine compound, a protonate of a phosphine compound, a phosphonium salt, an oxonium salt, a sulfonium salt, a carbonium salt, a silver salt, and a ferrocenium salt.

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